

MATRIX FOR THE 8-HOUR STRUCTURAL III EXAMINATION

SEISMIC ISSUES

- FORCE DISTRIBUTION
 - Irregularities
 - Deformation Compatibilities
 - Basic Dynamics
- SITE EFFECTS
 - Soil Structure Interaction
 - Foundation Design
- STRUCTURAL COMPONENT DESIGN
 - Primary LFRS Members
 - Diaphragms, Chords and Collectors
- DETAILING AND DUCTILITY
 - Members
 - Connections
- NON-STRUCTURAL COMPONENTS
 - Forces on Elements
 - Anchorage

OTHER ISSUES (Loads, Design, Detailing)

- Snow Drifting
- Load Combinations
- Verify Computer Output

Structural Design Standards

Structures:

- **IBC, International Building Code, 2003 Edition with appropriate National standards for various materials, i.e. AISC, 9th edition for ASD or 3rd edition for LRFD.**

Bridges:

- **Standard Specifications for Highway Bridges, Seventeenth Edition, 2002, American Association of State Highway and Transportation Officials, Washington, D.C.**
- **AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, Third Edition, 2004, American Association of State Highway and Transportation Officials, Washington, D.C.**
- **WSDOT Bridge Design Manual (latest version), Washington Department of Transportation, Olympia, WA.**